

Synthetic or Non-Synthetic

LubeDoc 2

We all ask our selves if "Synthetic Oils is the way to protect our equipment's life for a longer period of time? Well there are some advantages to synthetic but also some disadvantages.

Case studies have been done using the Synthetic oils over the Mineral base oils and have had great success using both oils. So to determine if Synthetic oils are for you, look at the different benefits when using synthetic oils.

Advantages:

- 1) Increased oxidation life for the oil.
- 2) Extended oil drain intervals.
- 3) Synthetics are mostly fire resistance.
- 4) Improved lubricity with synthetics.
- 5) Better thermal (heat) resistance.
- 6) Better viscosity.

Disadvantages:

- 1) Higher disposal cost because of molecular structure.
- 2) Synthetics have a higher potential of being toxic.
- 3) Synthetics are more expensive to purchase.
- 4) Never mix mineral oils with synthetics. (Incompatibility)
- 5) Engine or other seals may not be compatible.

Synthetic oils are produced by a chemical factor rather than by extracting refinement of petroleum to produce a compound with predictable properties. With a well-equipped lab and qualified chemists, scientific testing has determined how to make synthetic oils superior for longer use.

However, one must remember to stay with synthetic oils inside your engine once you have made the switch from mineral based oil. It is never a safe practice to mix the two oils in a crankcase or any other sump. The two oils are not compatible for mixing because of the different molecular makeup. It should also be noted that the additives represent the most important ingredients of properly formulated synthetic oil. Often the additives used in synthetic oils are the same additives used in a mineral oil resulting in a small performance improvement. The improvements are obtained only when premium synthetic based oil is blended with premium synthetic additives.

The ending results when using synthetic oils are: cooler-running equipment, reduced bearing vibration, smoother and more efficient, longer lasting equipment.